

CS340 - Exam 2 Review - Open book and lecture notes only

Properties of binary relations (reflexive, symmetric, transitive, etc.)

Adjacency, path, shortest path matrices for binary relations

Equivalence relations, equivalence classes, partitions

Partial orderings, poset diagrams, minimal/maximal elements, glb, lub

Well founded posets, lattices, topological sorts

Algorithm analysis, optimal in the worst case analysis

Proof by Induction

Finding closed forms to calculate summations

Permutation and combination calculations

Solve recurrence relation using either cancellation or substitution